

## PATENT ABSTRACTS OF JAPAN

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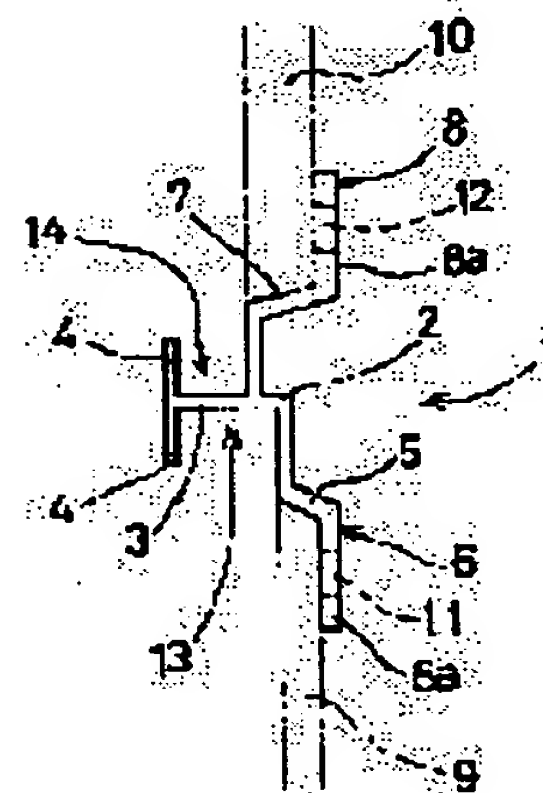
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(54) OUTER WALL MATERIAL MOUNTING METAL FITTING AND JOINTING STRUCTURE OF  
OUTER WALL MATERIAL

## (57)Abstract:

**PROBLEM TO BE SOLVED:** To connect outer wall materials with one kind of metal fitting by differing the size of one fitting part of a metal fitting body from that of the other fitting part opposed thereto, and providing one set of bed material contact leg plates from one side of each fitting part toward both directions.

**SOLUTION:** When a lower broad outer wall material having a thick fitting part on one end is butted to an upper narrow outer wall material having a thin fitting part on one end, an outer wall bracket 1 is arranged on a bed material so that a major fitting part 13 is situated on the lower side, and a minor fitting part 14 is on the upper side. A vis is screwed from the vis hole 12 of the bed material contact leg plate 8a of the bracket 1 to fix the bracket 1 to the bed material. Further, the thick fitting part broad outer wall material is fitted to the fitting part 13, and the thin fitting part of the narrow outer wall material is fitted to the fitting part 14. When an upper thick outer wall is connected to a lower thin outer wall, the bracket 1 is reversed. According to this, outer wall material differed in thickness can be connected with one kind of bracket 1.



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**CLAIMS**

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[Claim(s)]

[Claim 1] In the fixing metal for outer wall material which infixes among both and is used by attaching in substratum material in case outer wall material is compared and it joins Fixing metal for outer wall material characterized by coming to prepare the tripod plate for substratum material contact of a couple which the sizes with the fitting section of another side which counters with one fitting section of the mainframe of metallic ornaments which fits in the intussusceptum of an outer wall material edge differ, and was installed in both directions from the 1 side of each of this fitting section.

[Claim 2] Fixing metal for outer wall material according to claim 1 with which it comes to prepare the attachment section for attaching in substratum material in the tripod plate for substratum material contact of the aforementioned couple, respectively.

[Claim 3] Fixing metal for outer wall material according to claim 2 whose aforementioned attachment section is a hole.

[Claim 4] Fixing metal for outer wall material according to claim 2 or 3 which comes to prepare a level difference between the aforementioned tripod plate for substratum material contact, and the fitting section.

[Claim 5] The claim 2 to which it comes to prepare the outer wall material insertion presser foot stitch tongue installed in both directions from the side besides the fitting section of each above, or fixing metal for outer wall material given in either of 4.

[Claim 6] In the junction structure of the outer wall material which compares outer wall material and is joined through the fixing metal which has the fitting section of the couple which counters By changing the size with the fitting section of another side which counters with one fitting section of the mainframe of metallic ornaments which fits in the intussusceptum of an outer wall material edge Junction structure of the outer wall material characterized by switching the fitting section according to the thickness of the intussusceptum of an outer wall material edge, and joining outer wall material, using fixing metal free [ the upper and lower sides or a longitudinal direction ].

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## DETAILED DESCRIPTION

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### [Detailed Description of the Invention]

[0001]

[The technical field to which invention belongs] this invention relates to the junction structure of the outer wall material for joining outer wall material using enhancement of the metallic ornaments for attachment for being intervened and used between outer wall material and attaching outer wall material in substratum material, and these metallic ornaments.

[0002]

[Description of the Prior Art] As this kind of fixing metal for outer wall material, the well-known technique of masses, such as JP,6-10469,U and JP,8-158584,A, exists, for example. namely, this kind — well-known techniques are horizontal placement and a thing which carries out a vertical flare about outer wall material at the vertical orientation or a longitudinal direction by forming the fitting section of a couple and inserting the intussusceptum of the edge of outer wall material in this fitting section by the mainframe of metallic ornaments consisting of the shape of a typeface of abbreviation \*\*, and forming what \*\* in the shape of [ of this \*\* ] a character

[0003] since [ and ] the tripod plate for substratum material contact installed by these metallic ornaments from the fitting section is formed — the screw of this tripod plate — substratum material is made to carry out screw setting fixation of the outer wall material using a hole

[0004] However, in the above-mentioned conventional technique, when the spacing of substratum material was the same, when the width of face of outer wall material became large, there was a problem to which such a wind pressure (negative pressure) compares with metallic ornaments at narrow outer wall material as a result of [ its ] a large next door, and safety falls. Thickness of the intussusceptum of the outer wall material as stop section inserted for canceling this at the fitting section of metallic ornaments needed to be enlarged, or metallic ornaments needed to be made broad.

[0005] However, since the fitting section of a couple became the same size, when the intussusceptum which the intussusceptum inserted in the fitting section side of metallic ornaments inserts in the fitting section side of metallic ornaments by the above thick outer wall material and narrow [ conventional ] made outer wall material [ \*\*\*\* ] intermingled and used it, it was unsuitable and the upper use was actually difficult [ it was broad, and ] in the conventional metallic ornaments.

[0006]

[Problem(s) to be Solved by the Invention] Paying attention to the above-mentioned trouble, this invention is broad and is intermingled in outer wall material [ \*\*\*\* / the intussusceptum ] by narrow / with the thick intussusceptum / the outer wall material and narrow /. Horizontal placement, Let it be a technical problem to have developed the junction structure of the metallic ornaments for outer wall material, and outer wall material where it can be used by the ability making it serve a double purpose by one kind of metallic ornaments when a vertical flare is carried out and it uses it, and it could therefore be coped with to a negative wind pressure like narrow outer wall material also to broad outer wall material, and equivalent safety could be secured.

[0007]

[Means for Solving the Problem] In order to attain the above-mentioned technical problem, let this invention be the fixing metal for outer wall material which it comes to make the configuration in which the tripod plate for substratum material contact of a couple which the sizes with the fitting section of another side which counters with one fitting section of the mainframe of metallic ornaments which fits in the intussusceptum of an outer wall material edge differ, and was installed in both directions from the 1 side of each fitting section was prepared.

[0008] Thus, by constituting, it is broad and can be used by the ability securing safety to a combination usable next door and outer wall material broad therefore by one sort of metallic ornaments to two sorts of outer wall material by making the fitting section of the size to which the intussusceptum corresponds to outer wall material [ \*\*\*\* / the intussusceptum ] by narrow / thick outer wall material and narrow / thick ] meet.

[0009] Furthermore, in the configuration of a claim 2, since it comes to prepare the attachment section for attaching in substratum material in the tripod plate for substratum material contact of the couple installed and formed in both directions from the fitting section, respectively, in this configuration, orientation is changed at the upper and lower sides or right and left, and the installation to substratum material is attained in the mainframe of metallic ornaments.

[0010] Furthermore, in the configuration of a claim 5, since it comes to prepare the outer wall material insertion presser foot stitch tongue installed in both directions from the side besides the fitting section, in this configuration, orientation is changed into the upper and lower sides or right and left, and fixation in outer wall material is attained in the mainframe of metallic ornaments.

[0011] Furthermore, by changing the size of the fitting section of another side which counters in a claim 6 with one fitting section of the mainframe of metallic ornaments which fits in the intussusceptum of an outer wall material edge Since the fitting section can be switched according to the thickness of the intussusceptum of an outer wall material edge and outer wall material can be joined, using fixing metal free [ the upper and lower sides or a longitudinal direction ] broad outer wall material — the upper and lower sides or right and left — any orientation — installation — being possible — it becomes, and broad outer wall material is attached safely [ substratum material ] and certainly, and it can fix

[0012]

[Embodiments of the Invention] Hereafter, the gestalt of operation of this invention is explained according to a drawing. First, one example of the fixing metal for outer wall material is explained according to drawing 1.

[0013] Drawing 1 shows the side elevation of the fixing metal for outer wall material 1 as one example, and drawing 2 shows this plan. The insertion presser foot stitch tongues 4 and 4 protrude on the edge upper and lower sides of the level horizontal plate section 3, and the mainframe 2 of metallic ornaments is formed in the shape of abbreviation of T characters. And while one tripod plate for substratum material contact 6 is caudad formed through a ramp 5 from the fundamental section of this horizontal plate section 3, it comes to form the tripod plate for substratum material contact 8 of another side in the upper part near the fundamental section of the aforementioned horizontal plate section 3 through a ramp 7.

[0014] 9 and 10 show the step formed between the legs 6a and 8a of the tripod plates for substratum material contact 6 and 8, and each fitting section. the screw on which 11 and 12 were drilled in the predetermined position of the legs 6a and 8a of the aforementioned tripod plates for both substrata material contact 6 and 8 — a hole is shown

[0015] It is the concave fitting section by which 13 was formed between the lower fitting presser foot stitch tongue 4 and the lower tripod plate for substratum material contact 6, and the fitting section of the top which 14 counters with this fitting section 13, and the size of both the fitting sections 13 and 14 is changed, and it is formed so that the size of the lower fitting section 13 may become larger than the size of the upper fitting section 14.

[0016] Thus, when the intussusceptum 16 of the end section compares outer wall material B of closing in to the end section outer wall material A and the bottom with the thick intussusceptum 15 and joins to them by narrow, as [ the formed fixing metal for outer wall material 1 is broad to the down side, and ] shown in drawing 3, among both, infixation arrival, it carries out and metallic



ornaments 1 are attached.

[0017] that tim — this drawing — lik — siz — the fitting section 13 — the bottom — smallness — while infixation arrival of the metallic ornaments 1 is carried out so that the fitting section 14 may be located in the bottom — the screw of leg 8a of the upper tripod plate for substratum material contact 8 — a screw 17 is made to thrust into the substratum material 18 from a hole 12, and metallic ornaments 1 are fixed to the substratum material 18

[0018] the bottom after fixing metallic ornaments 1 to the substratum material 18 as mentioned above — size — while the thick intussusceptum 15 of the end section of broad outer wall material A is inserted in the fitting section 13 — a top — smallness — the intussusceptum [ \*\*\*\* / the end section of narrow outer wall material B / the fitting section 14 ] 16 is inserted, respectively

[0019] In that case, while the insertion presser foot stitch tongue 4 of the metallic-ornaments 1 bottom stops step C of lower outer wall material A, the upper insertion presser foot stitch tongue 4 is inserted into notch D of upper outer wall material B. Thus, the matching junction to outer wall material A with the thick intussusceptum and outer wall material B [ \*\*\*\* / the intussusceptum ] is attained.

[0020] And in that case, since head 17a of a screw 17 is located in this step 10 by presence of a step 10, head 17a and outer wall material B do not contact.

[0021] In the above-mentioned example, although it comes to explain the example in the case of carrying out the arrangement junction of the outer wall material B [ \*\*\*\* / the bottom ] for thick outer wall material A to the bottom, when outer wall material B / \*\*\*\* / the bottom ] is arranged to the up side and it joins thick outer wall material A to it conversely, with this, it can correspond easily by reversing the aforementioned metallic ornaments 1.

[0022] namely, the thing for which the orientation of metallic ornaments 1 is reversed as shown in drawing 4 — a top — size — the fitting section 13 — the bottom — smallness — by making it the fitting section 14 located and carrying out infixation arrival to the above between both outer walls material A and B by this technique, the outer wall material A and B is stopped screw 17 to the substratum material 18, and it can fix

[0023] By using the metallic ornaments 1 given [ above-mentioned ] in an example as mentioned above, it can correspond by changing the orientation of the aforementioned metallic ornaments 1 regardless of arrangement of the upper and lower sides of the butt joint of both of outer wall material B who have outer wall material A which has the thick intussusceptum, and the intussusceptum [ \*\*\*\* ].

[0024] In addition, all, drawing 3 and the drawing 4 can join it similarly like (b) of not only this but the drawing 5, and (b) using these metallic ornaments 1, although it comes to explain the outer wall material A and B about the vertical orientation, i.e., the example in the case of carrying out horizontal placement, the matching, i.e., the vertical flare, of a longitudinal direction.

[0025] In addition, although it comes to prepare the insertion presser foot stitch tongue 4 in the edge upper and lower sides of the horizontal plate section 3 in the metallic ornaments 1 in the above-mentioned example, the length of an insertion presser foot stitch tongue, a configuration, etc. are not asked.

[0026] a means to attach metallic ornaments 1 in the substratum material 18 furthermore \*\*\*\*\* — the legs 6a and 8a of the tripod plates for substratum material contact 6 and 8 of metallic ornaments 1 — respectively — a screw — although it comes to prepare holes 11 and 12 — the attachment section as an installation means to the substratum material 18 — a screw — it is not limited to holes 11 and 12, and if it is a means by which outer wall material, such as adhesives besides a hole, can be attached in substratum material, it will not

[0027] In addition, an operation of this invention is not reduced at all as flat-tapped in the tooth-back side by formation of the fitting sections 13 and 14, as a configuration of metallic ornaments 1 as shown in the drawing 6 besides the above-mentioned example.

[0028] In addition, the quality of the material and the configuration of metallic ornaments concerning this invention are within the limits, and operation change is [ above-mentioned ] free for them. Although especially this invention was actually broad like the above-mentioned example from the upper standpoint and the case where they were the outer wall material with

the thick intussusceptum and the outer wall material of closing in of the intussusceptum by narrow was explained, the intussusceptum is aimed at thickness and two sorts of outer wall material of closing in regardless of the size of width of face.

[0029]

[Effect of the Invention] this invention obtains the metallic ornaments which are not in the former which can cope with it by one sort of metallic ornaments for comparing two sorts of outer wall material from which the outer wall material whose intussusceptum is closing in is different, and joining by the outer wall material at the time of making thick the intussusceptum which is an edge of outer wall material in order to cope with the negative pressure generated when width of face of the outer wall material which is the conventional trouble is made large, and narrow.

[0030] That is, since couple opposite of the fitting section of the size which is different on the mainframe of metallic ornaments was carried out, and it was prepared and it came to prepare the tripod plate for substratum material contact of a couple, the exceptional effect which enabled the junction of the two aforementioned sorts of outer wall material was acquired by reversing the upper and lower sides or right and left, and using the orientation of metallic ornaments according to the thick size of the intussusceptum of the aforementioned outer wall material.

[0031] Since the tripod plate for substratum material contact of a couple was furthermore installed in both directions from the fitting section of the aforementioned couple, and it attached in the leg of this tripod plate at substratum material and it came to prepare the attachment section of business, respectively, it was enabled to make the upper and lower sides or right and left invert the orientation, to use metallic ornaments, and to fix to substratum material.

[0032] Moreover, when [ which comes to form a step between a tripod plate and the fitting section ] a sake, for example, screw setting, is carried out, the head of a screw is located in this step and does not touch outer wall material.

[0033] Moreover, since it came to prepare an outer wall material insertion presser foot stitch tongue in both directions from the fitting section of the aforementioned couple, it was enabled to make the upper and lower sides or right and left invert the orientation, to use metallic ornaments, and to fix to outer wall material.

[0034] As mentioned above, when two sorts of different outer wall material with the thick intussusceptum of an outer wall material edge is compared and it joins By making thickness of the intussusceptum into size also to the broad outer wall material which the junction of two sorts of outer wall material of is attained by one sort of metallic ornaments, and was moreover conventionally made into the problem by changing the orientation of metallic ornaments Installation to substratum material could be ensured to the intensity not related with \*\*\*\* of substratum material, and the exceptional operation effect which is certainly therefore fixable to the wind pressure to outer wall material uninfluent was acquired.

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**DESCRIPTION OF DRAWINGS**

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[Brief Description of the Drawings]

[Drawing 1] The side elevation of the fixing metal for outer wall material.

[Drawing 2] The plan of the fixing metal for outer wall material.

[Drawing 3] The side elevation showing the attachment implementation gestalt of outer wall material.

[Drawing 4] The side elevation showing the attachment implementation gestalt of other outer wall material.

[Drawing 5] (b) And (b) is the side elevation showing the vertical flare status.

[Drawing 6] It is the side elevation of the fixing metal for outer wall material as other examples.

[Description of Notations]

the fixing metal for 1 — outer wall material, and 2 — the mainframe of metallic ornaments, the tripod plate for 6 — substratum material contact, the tripod plate for 8 — substratum material contact, and 11 and 12 ... a screw — a hole, and 13 and 14 ... the fitting section, and 15 and 16 ... the intussusceptum and 18 ... substratum material

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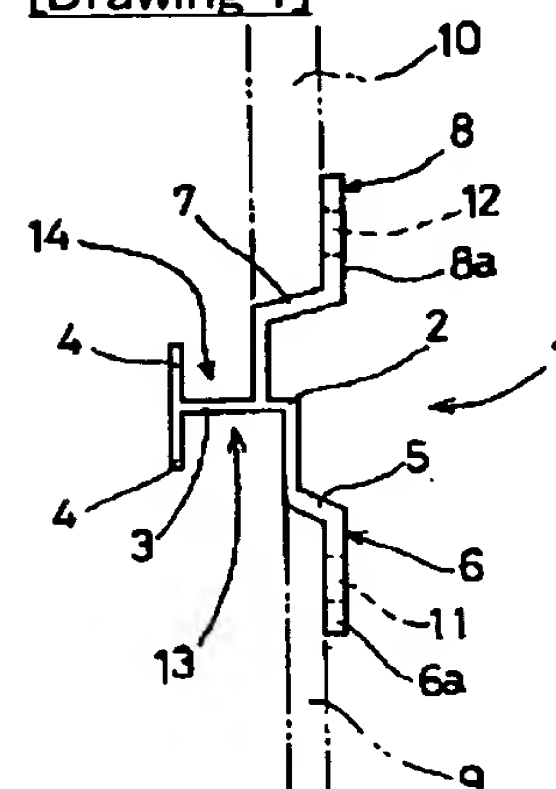
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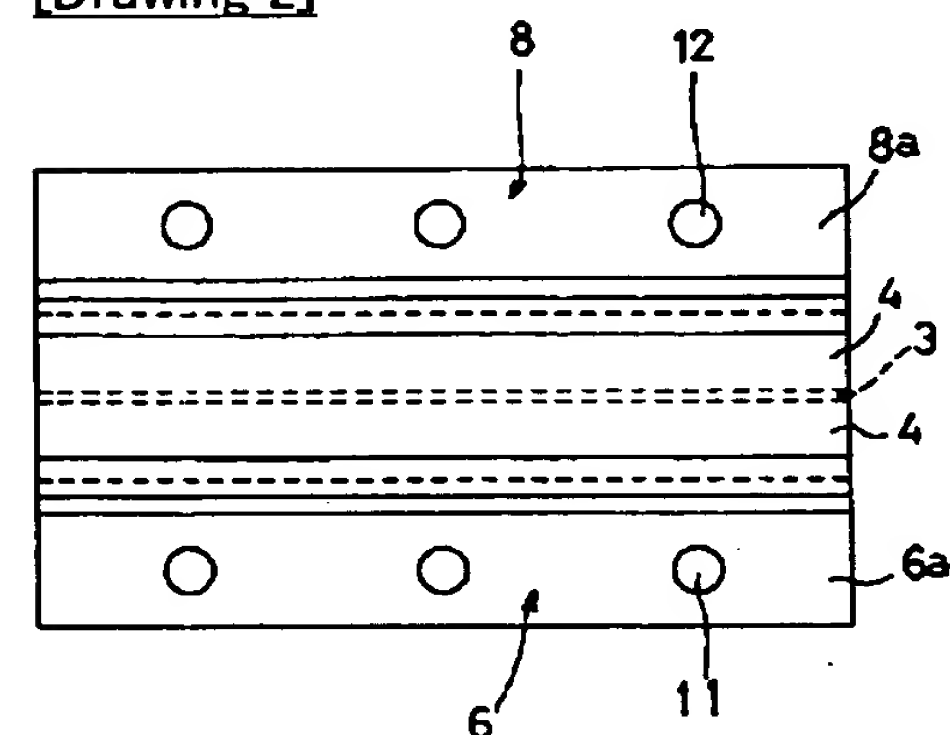
**DRAWINGS**

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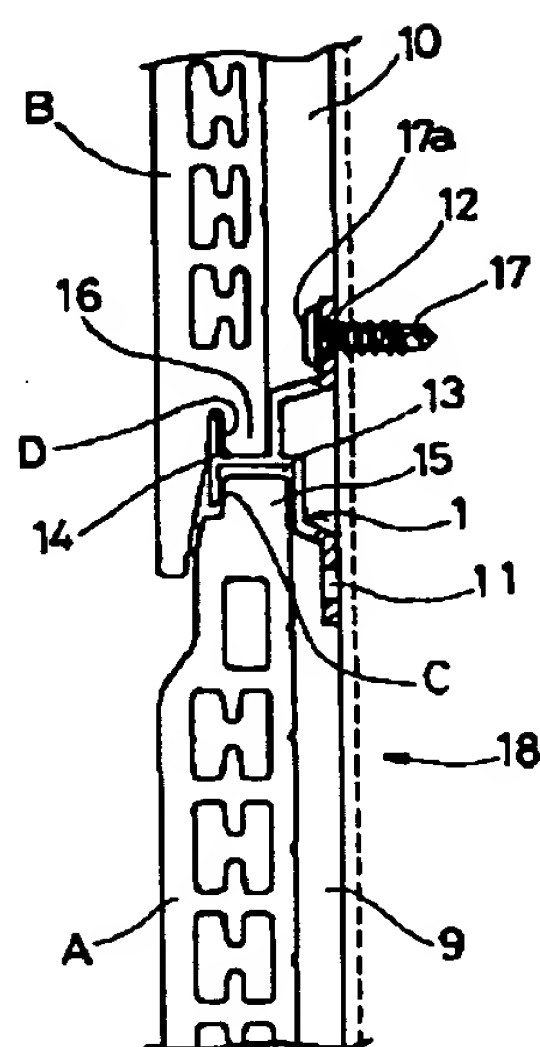
**[Drawing 1]**



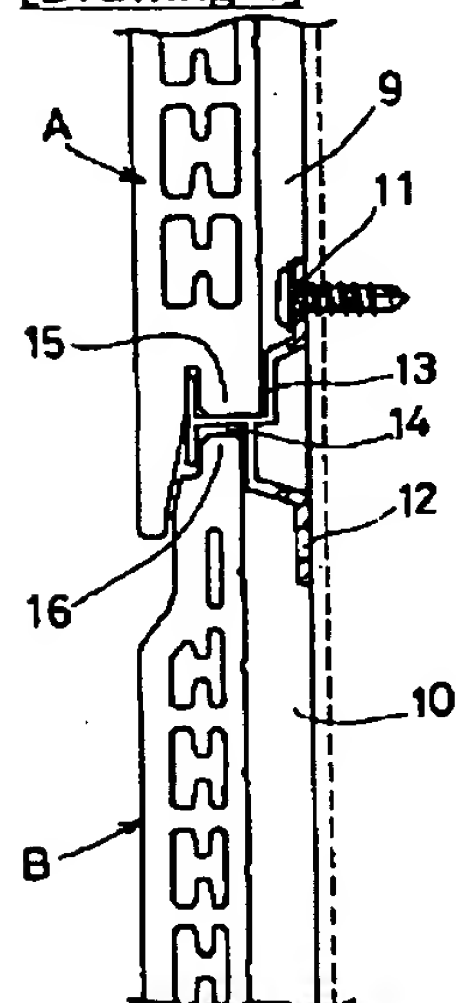
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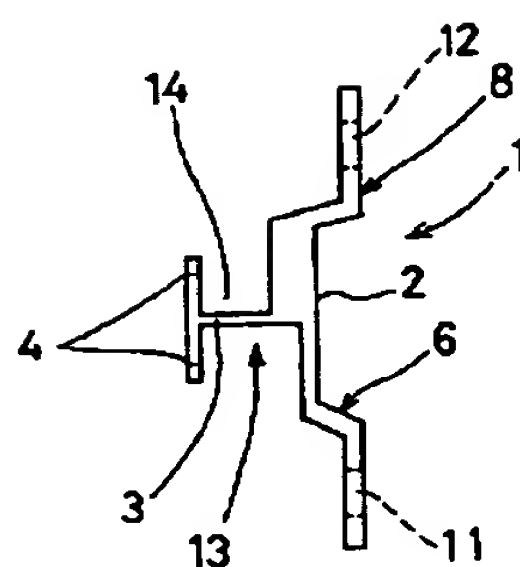
**[Drawing 3]**



[Drawing 4]

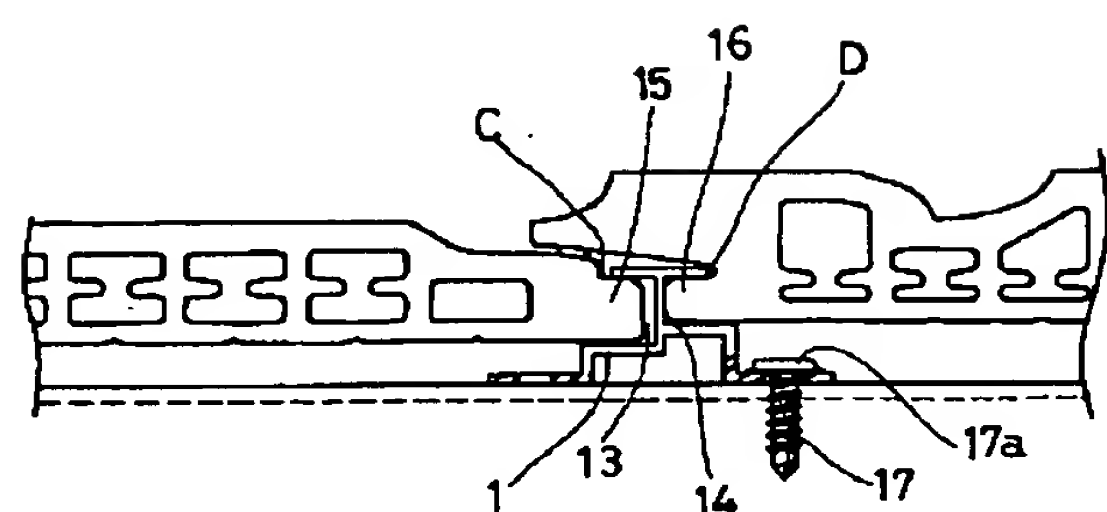


[Drawing 6]

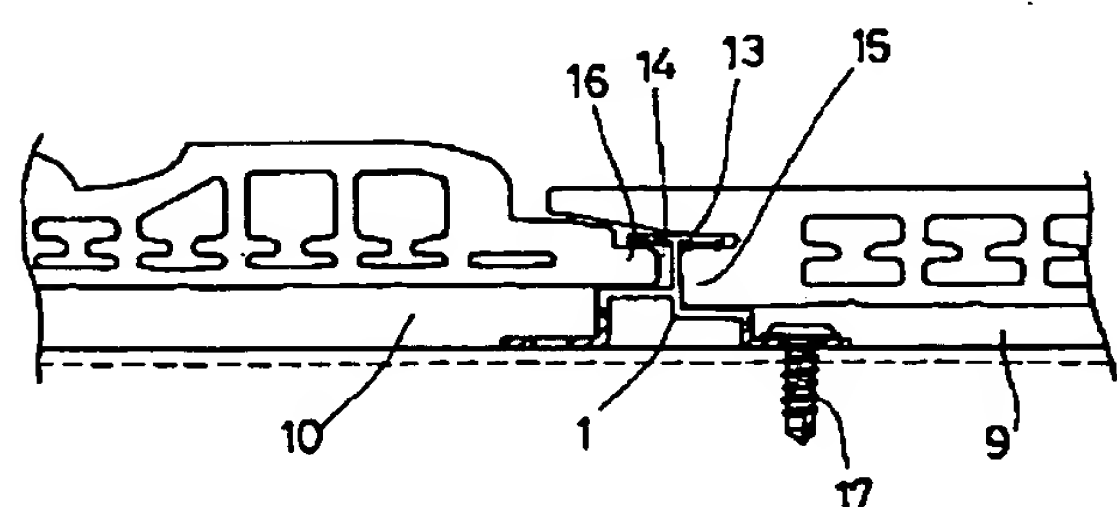


[Drawing 5]

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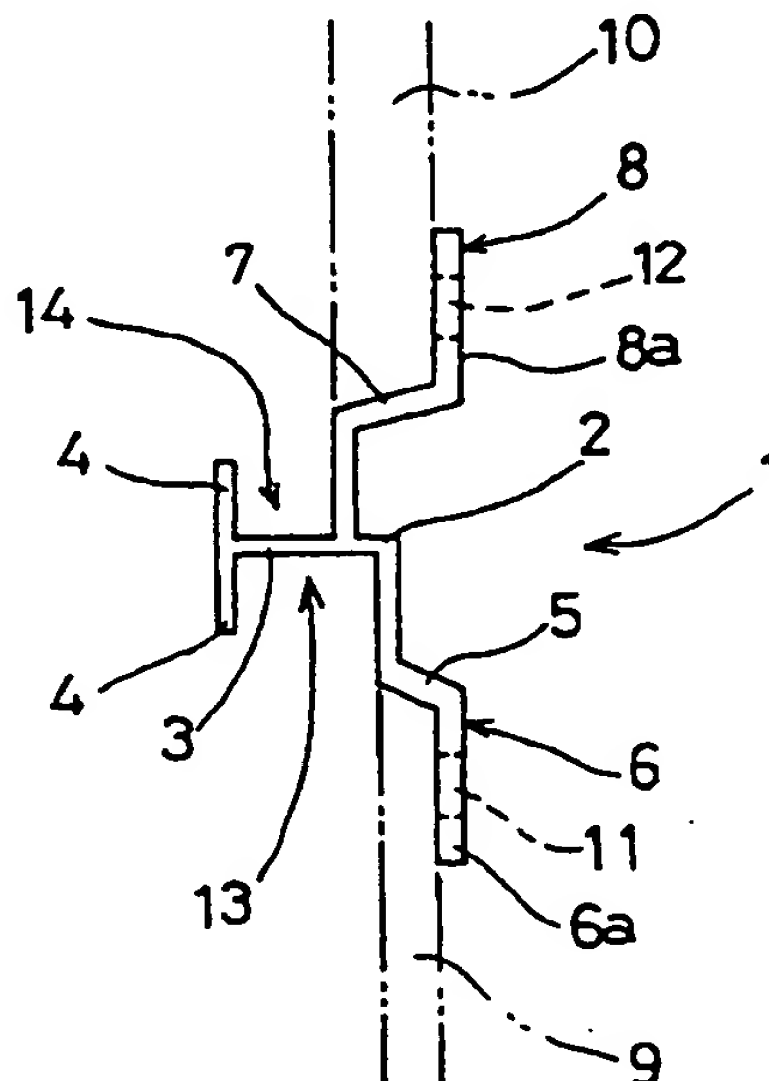
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(54)【発明の名称】 外壁材用取付金具及び外壁材の接合構造

(57)【要約】

【課題】 外壁材端部の肉厚を異にする2種の外壁材の突き合わせ接合を、1種の取付金具によって兼用できることを課題とする。

【解決手段】 外壁材用取付金具において、金具本体に外壁材端部の嵌入部を嵌合する一組の対向する嵌合部の大きさを異にして形成し、且つ夫々の嵌合部の一侧から両方向に延設された一組の下地材当接用脚板を設けたことを特徴とする。





## 【特許請求の範囲】

【請求項1】 外壁材同士を突合わせて接合する際に両者間に介装して下地材に取り付け使用される外壁材用取付金具において、外壁材端部の嵌入部を嵌合する金具本体の一方の嵌合部と対向する他方の嵌合部との大きさが異なり、且つ該夫々の嵌合部の一侧から両方向に延設された一組の下地材当接用脚板が設けられてなることを特徴とする外壁材用取付金具。

【請求項2】 前記一組の下地材当接用脚板に、下地材に取り付けるための取付部が夫々設けられてなる請求項1記載の外壁材用取付金具。

【請求項3】 前記取付部が孔である請求項2記載の外壁材用取付金具。

【請求項4】 前記下地材当接用脚板と嵌合部との間に段差を設けてなる請求項2又は3記載の外壁材用取付金具。

【請求項5】 前記夫々の嵌合部の他側から両方向に延設された外壁材嵌入爪が設けられてなる請求項2乃至4の何れかに記載の外壁材用取付金具。

【請求項6】 対向する一組の嵌合部を有する取付金具を介して外壁材同士を突合わせて接合する外壁材の接合構造において、外壁材端部の嵌入部を嵌合する金具本体の一方の嵌合部と対向する他方の嵌合部との大きさを変えることにより、外壁材端部の嵌入部の肉厚に応じて嵌合部を切り換えて取付金具を上下又は左右方向自在に使用して外壁材を接合することを特徴とする外壁材の接合構造。

## 【発明の詳細な説明】

【0001】

【発明の属する技術分野】 本発明は外壁材間に介在して使用され外壁材を下地材に取り付けるための取付用金具の改良、並びに該金具を使用して外壁材を接合するための外壁材の接合構造に関する。

【0002】

【従来の技術】 この種の外壁材用取付金具としては、例えば実開平6-10469号公報、特開平8-158584号公報等多数の公知技術が存在する。すなわちこの種公知の技術は何れも金具本体が略エの字形状からなり、且つ該エの字状に形成されることにより一組の嵌合部が形成されて、該嵌合部に外壁材の端部の嵌入部が嵌入されることによって、外壁材を上下方向又は左右方向に横張り、縦張りするものである。

【0003】 しかも、該金具には嵌合部から延設された下地材当接用脚板が形成されているため、該脚板のビス孔を利用して下地材に外壁材をビス止め固定させるものである。

【0004】 しかしながら上記従来技術においては、下地材の間隔が同じ場合、外壁材の幅が広くなると金具にかかる風圧力（負圧）が大となり、その結果、幅狭な外壁材に比し安全性が低下する問題があった。これを解消

するには金具の嵌合部に嵌入する係止部としての外壁材の嵌入部の肉厚を大きくするか、又は金具を幅広にする必要があった。

【0005】 しかるに、従来の金具においては、一組の嵌合部が同じ大きさになるため、幅広で金具の嵌合部側へ嵌入する嵌入部が上記のような肉厚な外壁材と従来の幅狭で金具の嵌合部側へ嵌入する嵌入部が肉薄な外壁材とを混在させて使用する場合には不適當で実際上の使用が困難であった。

【0006】

【発明が解決しようとする課題】 本発明は、上記問題点に着目して、幅広で嵌入部が肉厚な外壁材と幅狭で嵌入部が肉薄な外壁材を混在して横張り、縦張りして使用する場合にも1種類の金具で兼用して使用することができ、よって幅広な外壁材に対しても幅狭な外壁材と同様に負の風圧力に対し対処でき同等な安全性を確保できる外壁材用の金具と外壁材の接合構造を開発したことを課題とするものである。

【0007】

【課題を解決するための手段】 本発明は上記課題を達成するために、外壁材端部の嵌入部を嵌合する金具本体の一方の嵌合部と対向する他方の嵌合部との大きさが異なり、且つ夫々の嵌合部の一侧から両方向に延設された一組の下地材当接用脚板が設けられた構成にしてなる外壁材用取付金具としたものである。

【0008】 このように構成することにより、幅広で嵌入部が肉厚の外壁材と幅狭で嵌入部が肉薄な外壁材に対し対応する大きさの嵌合部を対面させることにより2種の外壁材に対し1種の金具にて兼用使用可能となり、よって幅広な外壁材に対して安全性を確保して使用できるのである。

【0009】 さらに、請求項2の構成においては、嵌合部から両方向に延設して形成された一組の下地材当接用脚板に、下地材に取り付けるための取付部を夫々設けてなるため、該構成においては金具本体を上下又は左右に方向を変えて下地材への取り付けが可能となるのである。

【0010】 さらに、請求項5の構成においては、嵌合部の他側から両方向に延設された外壁材嵌入爪を設けてなるため、該構成においては金具本体を上下又は左右に方向を変えて外壁材への固定が可能となるのである。

【0011】 さらに、請求項6においては、外壁材端部の嵌入部を嵌合する金具本体の一方の嵌合部と対向する他方の嵌合部の大きさを変えることにより、外壁材端部の嵌入部の肉厚に応じて嵌合部を切り換えて取り付け金具を上下又は左右方向自在に使用して外壁材を接合することができるので、幅広な外壁材を上下又は左右いずれの方向にも取り付け可能となり、幅広な外壁材を下地材に安全且つ確実に取り付け固定できるのである。

【0012】

【発明の実施の形態】以下、本発明の実施の形態について図面に従って説明する。まず、外壁材用取付金具の一実施例について図1に従って説明する。

【0013】図1は一実施例としての外壁材用取付金具1の側面図、図2は同平面図を示し、金具本体2は水平な水平板部3の端部上下に嵌入爪4、4が突設されて略T字状に形成され、且つ該水平板部3の根本部から下方に傾斜板5を介して一方の下地材当接用脚板6が形成され、かつ該水平板部3の根本部近傍から上方に傾斜板7を介して他方の下地材当接用脚板8が形成されて

なる。  
【0014】9、10は下地材当接用脚板6、8の脚部6a及び8aと夫々の嵌合部との間に形成された段部を示す。11、12は前記両下地材当接用脚板6、8の脚部6a、8aの所定位置に穿設されたビス孔を示す。

【0015】13は下側の嵌合爪4と下側の下地材当接用脚板6との間に形成された凹状の嵌合部、14は該嵌合部13と対向する上側の嵌合部で、下側の嵌合部13の大きさが上側の嵌合部14の大きさより大きくなるように両嵌合部13、14の大きさを変えて形成されている。

【0016】このように形成された外壁材用取付金具1は、例えば下側に幅広で一端部の嵌入部15が肉厚の外壁材Aと上側に幅狭で一端部の嵌入部16が肉薄の外壁材Bとを突合わせて接合する場合には、図3のように両者間に金具1を介装着して取り付けられるものである。

【0017】その際、同図のように大なる嵌合部13が下側に、小なる嵌合部14が上側に位置するように金具1を介装着せしめるとともに上側の下地材当接用脚板8の脚部8aのビス孔12からビス17を下地材18に螺

入せしめて金具1を下地材18に固定する。  
【0018】上記のように金具1を下地材18に固定した後、下側の大なる嵌合部13に幅広な外壁材Aの一端部の肉厚な嵌入部15を嵌入するとともに上側の小なる嵌合部14に幅狭な外壁材Bの一端部の肉薄な嵌入部16を夫々嵌入する。

【0019】その際、金具1の下側の嵌入爪4が下側の外壁材Aの段部Cに係止するとともに上側の嵌入爪4が上側の外壁材Bの切欠部Dに係入される。このようにして、嵌入部が肉厚な外壁材Aと嵌入部が肉薄な外壁材Bとの突合わせ接合が可能となるのである。

【0020】しかもその際ビス17の頭部17aは段部10の存在によって該段部10内に位置するため頭部17aと外壁材Bとが接触することがない。

【0021】上記実施例においては、下側に肉厚な外壁材Aを上側に肉薄な外壁材Bを配置接合する場合の実施例について説明してなるが、これとは逆に上側に肉厚な外壁材Aを下側に肉薄な外壁材Bを配置して接合する場合には、前記金具1を反転させることにより容易に対応できる。

【0022】すなわち図4のように金具1の方向を反転させることにより上側に大なる嵌合部13を下側に小なる嵌合部14を位置せしめて前記と同方法にて両外壁材A、B間に介装着せしめることにより外壁材A、Bを下地材18にビス17止め固定できるのである。

【0023】以上のように上記実施例記載の金具1を使用することにより、肉厚な嵌入部を有する外壁材Aと肉薄な嵌入部を有する外壁材Bの両者の突合せ接合を上下の配置に関係なく前記金具1の方向を変えることによって対応できるのである。

【0024】尚、図3と図4はいずれも外壁材A、Bを上下方向すなわち横張りする場合の実施例について説明してなるが、これに限らず図5の(イ)、(ロ)のように左右方向の突合わせ、すなわち縦張りについても同様に該金具1を使用して接合できるものである。

【0025】尚、上記実施例における金具1においては水平板部3の端部上下に嵌入爪4を設けてなるが嵌入爪の長さ、形状等は問うものではない。

【0026】さらに金具1を下地材18に取り付ける手段として金具1の下地材当接用脚板6、8の脚部6a、8aに夫々ビス孔11、12を設けてなるが、下地材18への取り付け手段としての取付部はビス孔11、12に限定されるものではなく、孔の他、接着剤等外壁材を下地材に取り付けできる手段であれば問うものではない。

【0027】尚、金具1の形状としては上記実施例の他、図6のように嵌合部13、14の形成によるその背面側を面一としても何ら本発明の作用を減ずるものではない。

【0028】その他、本発明に係る金具の材質や形状は上記範囲内で実施変更自在である。特に、本発明は実際上の見地から上記実施例の如く、幅広で嵌入部が肉厚の外壁材と幅狭で嵌入部が肉薄の外壁材の場合について説明したが、幅の広さに関係なく、嵌入部が肉厚と肉薄の2種の外壁材を対象とするものである。

【0029】

【発明の効果】本発明は、従来の問題点である外壁材の幅を広くした場合に発生する負圧に対処するために外壁材の端部である嵌入部を肉厚とした場合の外壁材と幅狭で嵌入部が肉薄である外壁材の異なる2種の外壁材を突合わせ接合するに1種の金具にて対処できる従来にない金具を得たものである。

【0030】すなわち金具本体に異なる大きさの嵌合部を一組対向して設け且つ一組の下地材当接用脚板を設けてなるため、前記外壁材の嵌入部の肉厚の大小に応じて金具の方向を上下又は左右に反転させて使用することにより前記2種の外壁材の接合を可能とした格別な効果を得た。

【0031】さらに前記一組の嵌合部から両方向に一組の下地材当接用脚板を延設し且つ該脚板の脚部に下地材

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に取り付け用の取付部を夫々設けてなるため、金具を上下又は左右にその方向を反転させて使用して下地材に固定することが可能となった。

【0032】また、脚板と嵌合部との間に段部を形成してなるため、例えばビス止めした場合にビスの頭部が該段部内に位置し外壁材に接することがないのである。

【0033】また、前記一組の嵌合部から両方向に外壁材嵌入爪を設けてなるため、金具を上下又は左右にその方向を反転させて使用して外壁材に固定することが可能となった。

【0034】以上のように、外壁材端部の嵌入部の肉厚の異なる2種の外壁材を突合わせ接合する場合に、金具の方向を変えることによって1種 of 金具で2種の外壁材の接合が可能となり、しかも従来問題とされた幅広の外壁材に対しても嵌入部の肉厚を大とすることにより、下

地材の間隔と関係なく確実に下地材への取り付けを強度に行うことができ、よって外壁材に対する風圧力に影響なく確実に固定できる格別な作用効果を得たのである。

【図面の簡単な説明】

【図1】外壁材用取付金具の側面図。

【図2】外壁材用取付金具の平面図。

【図3】外壁材の取付実施形態を示す側面図。

【図4】他の外壁材の取付実施形態を示す側面図。

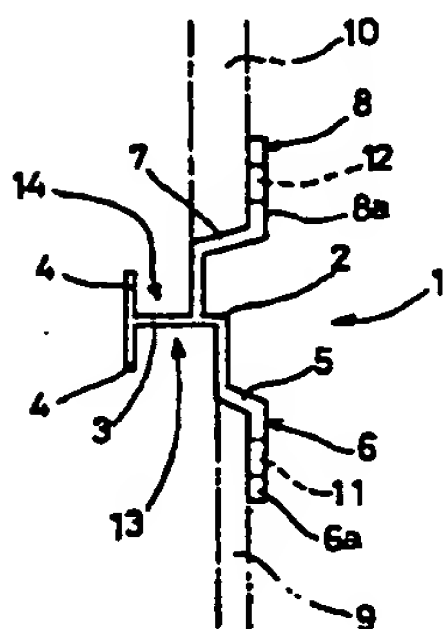
【図5】（イ）及び（ロ）は縦張り状態を示す側面図。

10 【図6】他の実施例として外壁材用取付金具の側面図。

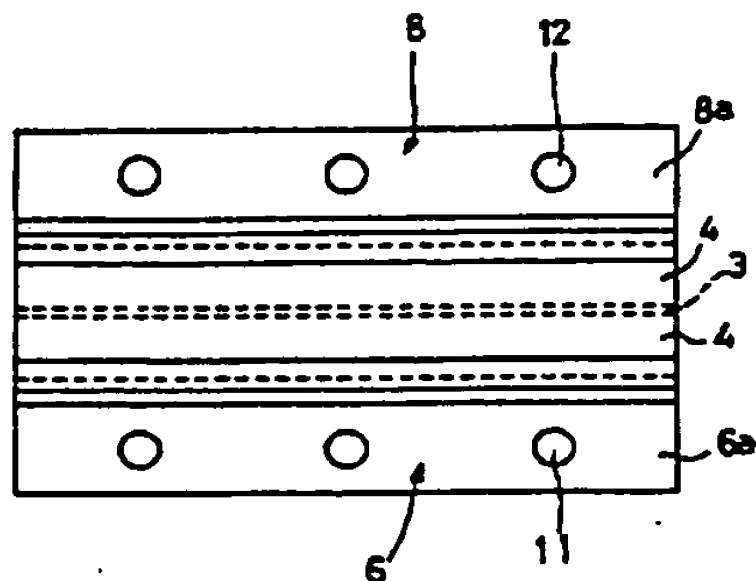
【符号の説明】

1…外壁材用取付金具、2…金具本体、6…下地材当接用脚板、8…下地材当接用脚板、11、12…ビス孔、13、14…嵌合部、15、16…嵌入部、18…下地材

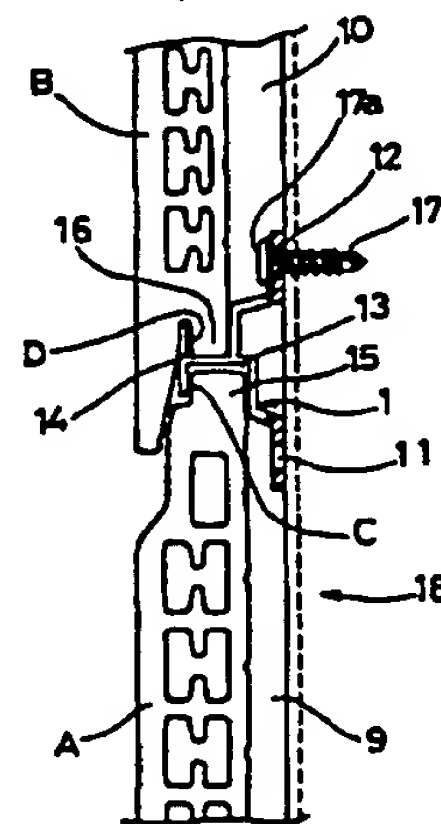
【図1】



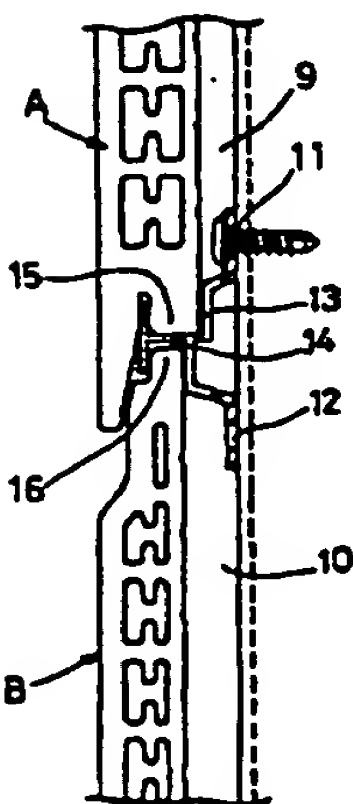
【図2】



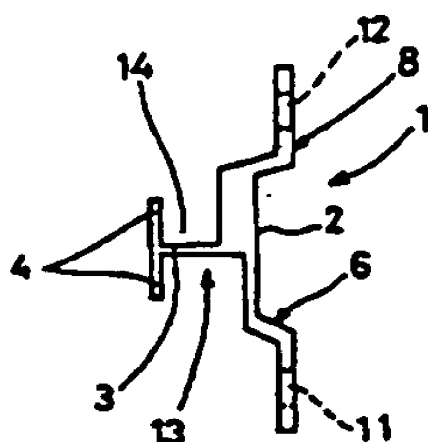
【図3】



【図4】



【図6】

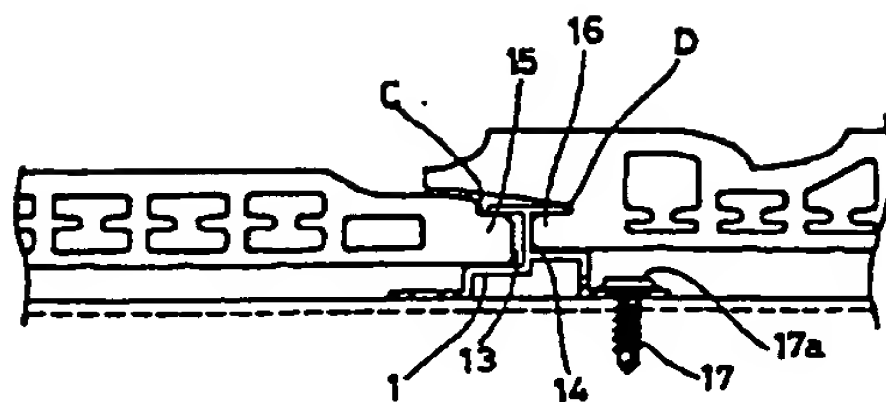


(5)

特開平11-293890

【図5】

(イ)



(ロ)

